Laboratory Analysis Report

Job ID: 19060125



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name: ITC-DP - Outfall 002

Report To: Client Name: Intercontinental Terminal Company

Attn: Tyler Blankenship

Client Address: P. O. Box 698

City, State, Zip: Deer Park, TX, 77536

P.O.#.: 370468

Sample Collected By:

Date Collected: 06/03/19 - 06/04/19

Total Number of Pages:

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
WW-20190603-002-Day 28	Water	19060125.01
WW-20190604-002-Day 29	Water	19060125.02

Released By: Senthilkumar Sevukan
Title: Assistant Lab Manager

Date: 6/5/2019



This Laboratory is NELAP (T104704213-19-20) accredited. Effective: 04/01/2019; Expires: 3/31/2020

Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

Date Received: 06/04/2019 15:41

Page 1 of 8 Report Number: RPT190605042

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID: 19060125 Date: 6/5/2019

General Term Definition

Back-WtBack WeightPost-WtPost WeightBRLBelow Reporting Limitppmparts per millioncfucolony-forming unitsPre-WtPrevious Weight

Conc. Concentration Q Qualifier

D.F. Dilution Factor RegLimit Regulatory Limit

Front-Wt Front Weight RPD Relative Percent Difference

LCS Laboratory Check Standard RptLimit Reporting Limit

LCSD Laboratory Check Standard Duplicate SDL Sample Detection Limit

MS Matrix Spike surr Surrogate
MSD Matrix Spike Duplicate T Time

MW Molecular Weight TNTC Too numerous to count

J Estimation. Below calibration range but above MDL

Qualifier Definition

LABORATORY TEST RESULTS

Job ID: 19060125

Date 6/5/2019

Client Name: Intercontinental Terminal Company Attn: Tyler Blankenship

ITC-DP - Outfall 002 Project Name:

Client Sample ID: Job Sample ID: WW-20190603-002-Day 28 19060125.01

Date Collected: Sample Matrix 06/03/19 Water Time Collected: 10:00 % Moisture

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	MQL	Q	Date Time	Analyst
SM 4500CN-CG	Cyanide, Amenable Ultra Low								
	Cyanide, Amenable	< 0.001	mg/L	1	0.001	0.002		06/05/19 14:00	LEB

LABORATORY TEST RESULTS

Job ID: 19060125

Attn: Tyler Blankenship

19060125.02

Water

Date 6/5/2019

Client Name: Intercontinental Terminal Company

ITC-DP - Outfall 002 Project Name:

Client Sample ID: WW-20190604-002-Day 29

Date Collected: 06/04/19 Time Collected: 10:00

% Moisture

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	MQL	Q	Date Time	Analyst
EPA 300.0	Anions								
	Ortho Phosphate-P	< 0.03	mg/L	1	0.03	0.1		06/04/19 19:50	RR

Job Sample ID:

Sample Matrix

QUALITY CONTROL CERTIFICATE



Analysis: Anions Method: EPA 300.0 Reporting Units: mg/L

Samples in This QC Batch: 19060125.02

Sample Preparation: PB19060509 Prep Method: EPA 300.0 Prep Date: 06/04/19 13:00 Prep By: RRaval

QC Type: Method Blank								
Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qu	ıal
Ortho Phosphate-P		< MDL	mg/L	1	0.1	0.03		

QC Type: LCS and LCS	D									
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Ortho Phosphate-P	1	0.964	96.4	1	0.980	98	1.7	20	90-110	

QC Type: MS and MSD											
QC Sample ID: 190600	98.01										
	Sample	MS	MS	MS	MSD	MSD	MSD		RPD	%Rec	
Parameter	Result	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual
Nitrite-N	BRL	10	10.0	100						80-120	
Nitrate-N	BRL	10	10.2	102						80-120	
Ortho Phosphate-P	BRL	10	11.6	116						80-120	

QUALITY CONTROL CERTIFICATE



Analysis : Cyanide, Amenable Ultra Low Method : SM 4500CN-CG Reporting Units : mg/L

Samples in This QC Batch: 19060125.01

Sample Preparation: PB19060543 Prep Method: SM 4500CN-CG Prep Date: 06/05/19 11:15 Prep By: LEBell

QC Type: Method Blank							
Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
Cyanide, Amenable	57-12-5	< MDL	mg/L	1	0.002	0.001	

QC Type: Duplicate QC Sample ID: 19060125.01 QCSample Sample **RPD** Result Units **RPD** CtrlLimit Qual Parameter Result Cyanide, Amenable BRL BRL 0 20

QC Type: LCS and LCS	D									
	LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery	
Parameter	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual
Cyanide, Amenable	0.02	0.0202	101	0.02	0.0203	102			80-120	

QC Type: MS and M	ISD										
QC Sample ID: 190	060125.01										
	Sample	MS	MS	MS	MSD	MSD	MSD		RPD	%Rec	
Parameter	Result	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual
Cyanide, Amenable	BRL	0.02	BRL							80-120	

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* Containers: VOA- 40 ml vial			A/G- Ambe	r/Glass	1 Lite	er					**Pres	ervativ	es: C-	Cool	H-H	CI N	I- HNO3		empe	Annah and an annah and an	Malaum .	
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Sample Condition Checklist

A&B	JobID: 19060125	Date Receive	ed · 06	/04/2019		Time	Received: 3	3:41PM		
				, ,						
	t Name : Intercontinental Termi									
	perature : 0.9-0.5cf=0.4°C	Sample pH :								
Ther	mometer ID : 1707629	pH Paper ID	: 723	75						
		Che	ck Point	:s				Yes	No	N/A
1.	Cooler seal present and signed.								Χ	
2.	Sample(s) in a cooler.							Х		
3.	If yes, ice in cooler.							Х		
4.	Sample(s) received with chain-of-cus	tody.						Х		
5.	C-O-C signed and dated.							Х		
6.	Sample(s) received with signed sam	ole custody se	eal.						Χ	
7.	Sample containers arrived intact. (If	no comment)						Х		
	Matrix Water Soil Liquid	l Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Oth	er
8.]
				Ш	I	-				
9.	Sample(s) were received in appropria	te container(_					X		
9. 10.			(s).					x x	,	
	Sample(s) were received in appropria		(s).	Ц						
10.	Sample(s) were received in appropriations appropriation of the sample (s) were received with proper		(s).			<u> </u>		X		
10. 11.	Sample(s) were received in appropria Sample(s) were received with proper All samples were logged or labeled.	preservative	(s).					X		
10. 11. 12.	Sample(s) were received in appropriate Sample(s) were received with proper All samples were logged or labeled. Sample ID labels match C-O-C ID's	preservative	(s).	L-1				X X X		
10. 11. 12. 13.	Sample(s) were received in appropria Sample(s) were received with proper All samples were logged or labeled. Sample ID labels match C-O-C ID's Bottle count on C-O-C matches bottle	preservative s found. ses requested	(s).					X X X		
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Received by: AArnett Check in by/date: AArnett / 06/04/2019

Phone: 713-453-6060 www.ablabs.com